PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
P03014PCT FOR FURTHER ACTION		PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/SE2004/001043	29.06.2004	01.07.2003					
International Patent Classification (IPC) o	r national classification and IPC						
\$01D 33/01, B01D 36/0	2						
Applicant							
Blue Air AB et al							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	f 3 sheets, including this cover						
3. This report is also accompanied by		-					
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	and to the International Bureau) a total of 2						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report							
sheets which su	persede earlier sheets, but which this Authori	N considers contain an amondment that was					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the Internation	al Bureau only) a total of (indicate type and no	umber of electronic carrier(s))					
form only, as indicated	, containing a sequence listing a in the Supplemental Box Relating to Sequencians)	and/or tables related thereto, in electronic					
Administrative Instruct	ions).	e Listing (see Section 802 of the					
4. This report contains indications rela	ting to the following items:						
Box No. I Basis of the							
Box No. II Priority							
Box No. III Non-estab	lishment of opinion with regard to novelty, in	ventive step and industrial applicability					
Box No. V Reasoned applicabili	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain do	Certain documents cited						
Box No. VII Certain de	tain defects in the international application						
Box No. VIII Certain ob	Certain observations on the international application						
ate of submission of the demand	Date						
	Date of completion of	this report					
1.01.2005	28.09.2005	28 09 2005					
ame and mailing address of the IPEA/SE	Authorized officer						
atent- och registreringsverket	Authorized officet	4					
102 42 STOCKHOLM							
acsimile No. +46 8 667 72 88	Telephone No. 145	lephone No. +46 8 782 25 00					
rm PCT/IPEA/409 (cover sheet) (April 2005)							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001043

Во	x No. I	I B	asis of the report					
<u>.</u>	1. With regard to the language, this report is based on:							
		the international application in the language in which it was filed						
:			lation of the international application into					
;; ;;			is the language of a translation furnished for the purposes of:	*				
			international search (Rules 12.3(a) and 23.1(b))					
			publication of the international application (Rule 12.4(a))					
: ::			international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	Jurnis	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
:		the int	emational application as originally filed/furnished					
.)	\boxtimes	the des	ecription:					
•			1-6	as originally filed/furnished				
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.1	_	pages*	received by this Authority on					
	Ш	a seque	$n\infty$ listing and/or any related table(s) – see Supplemental Box Relating to S	equence Listing.				
3.		The am	endments have resulted in the cancellation of:					
••			the description, pages					
· ::			the claims, Nos.					
·! ·. ·			the drawings, sheets/figs					
:			the sequence listing (specify):					
			any table(s) related to the sequence listing (specify):					
4.		This rep made, si 70.2(c)).	oor has been established as if (some of) the amendments annexed to this ince they have been considered to go beyond the disclosure as filed, as inc.	report and listed below had not been dicated in the Supplemental Box (Rule				
:			the description, pages					
• :			the claims, Nos.					
:			the drawings, sheets/figs					
;			the sequence listing (specify):					
			any table(s) related to the sequence listing (specify):					
: • {	If item 4 applies, some or all of those sheets may be marked "superseded."							
	PCT/IPEA/400 (Per No. D. (A) 2005)							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001043

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statemen	nt				
Nov	elty (N)	Claims Claims	1-8	YES NO	
Inve	entive step (IS)	Claims Claims	1-8	YES NO	
Indu	strial applicability (IA)	Claims Claims	1-8	YES NO	

Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: WO0057985 A
D2: WO9110493 A
D3: WO0172642 A
D4: DE2315615 A

D1 describes a portable device for filtering water, comprising a container and a movable filter connected by an operating rod and sealing organs.

D2 describes a cylindrical filter comprising a carbon filter surrounded by a polypropylene wrap.

D3 describes a silver-containing solution for anti-bacterial coating of objects.

D4: describes a water filter with an active-carbon-filled labyrinth.

The cited documents represent the general state of the art.
The invention defined in claims 1-8 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed water filtering device with a filter element having a labyrinth function and with means for emitting silver ions. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-8 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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Claims

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- 1. Water filter device, said device comprising a container (1; 101) that has an opening for filling of water, and a filter unit (3; 103) that is movable relative to the container (1; 101), that the filter unit (3; 103) comprises a filter element (5; 105), an operating rod (7; 107) connected to the filter element (5; 105) and sealing means (14; 116) along the periphery of the filter element (5; 105), that the filter element (5; 105) comprises a particle filter (10; 110) and an adsorption filter (11; 111), and that in connection with the operating rod (7; 107) means are provided for emitting silver ions, c h a r a c t e r i z e d in that the filter element (105) has a labyrinth function.
- 2. Device according to claim 1, c h a r a c t e r i z e d in that the operating rod (7; 107) is coated with an agent that emits silver ions.
- 20 3. Device according to claim 1 or 2, c h a r a c t e r i z e d in that the filter element (5; 105) generally is disc shaped, and that the operating rod (7; 107) generally extends perpendicular to the filter element (5; 105).
 - 4. Device according to any of the previous claims, characterized in that the filter material in the particle filter (10; 110) constitutes polypropylene.
- 5. Device according to any of the previous alaims, characterized in that the filter material in the adsorption filter (11; 111) constitutes active carbon.
- 6. Device according to any of the previous claims,

 39 c h a r a c t e r i z e d in that a partition (118) is

 provided in the adsorption filter (111), said partition (118)

 extending transverse to the longitudinal direction of the

 operating rod (107).

- 7. Device according to claim 6, c h a r a c t e r i z e d in that the partition is in the shape of a circular disc (118) with a smaller diameter than the filter element (105).
- 8. Device according to any of the previous claims, characterized in that the sealing means (14; 114) comprises a tongue (16; 116), whose free end in active position abuts the inner side of the container (1; 101).